

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III, Annapolis Field Office

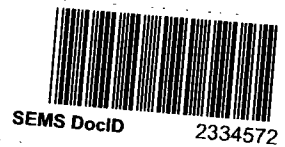
DATE: May 28, 1980

SUBJECT: Hazardous Waste Site Inspection Report for: Liquid Waste Disposal, Inc.,
Richfood Road, P.O. Box 7217, Richmond, VA - Phone 804/355-2563

FROM: George H. Houghton (3SA21) *GH*
Engineering Technician

TO: Jeffrey Hass (3SA30)
Acting Chief, Environmental Emergency Branch

THRU: Orterio Villa, Jr. (3SA20) *OV*
Director, Annapolis Field Office



The subject facility was inspected on March 20, 1980 and sampled
on April 9, 1980 by George H. Houghton and Ronald Jones from EPA/Annapolis.

Liquid Waste Disposal is on the Eckhardt List as site number 3214. Mr.

G.C. Kirkmyer is the owner and met with the inspectors on April 9, 1980.

He also accepted and signed the TSCA Notice of Inspection. A worker,

Mr. Harold Bailey, was also present. Mr. Kirkmyer also stated that

he did not want a duplicate set of samples taken by EPA. The inspector
first tried to inspect the facility on March 20, 1980. Several attempts
were made to contact the owner but the only contact was with his

answering service. The inspectors then proceeded to the waste disposal
site and found the gate locked. Several pictures were taken and the
inspectors left the premises. The next day on March 21, 1980 Mr.

Kirkmyer called the inspector in Annapolis and indicated he was out of
town. Arrangements were then made for the inspection on April 9, 1980.

The inspectors met Mr. Kirkmyer on April 9, 1980 at about 0900,
presented their credentials and Notice of Inspection. The waste liquid
for the most part arrives on site by a Liquid Waste Disposal (LWD)
tank truck. The material is pumped into an eighteen thousand gallon
mechanically agitated storage tank. The mixed liquid is then piped
to the incinerator. The burner is propane fired with a flame temperature
ranging from 2200°F to 2600°F according to Mr. Kirkmyer. The liquid

feed rate to the incinerator is about 600 gph to 900 gph.

Several drums were observed outside the fence, at least one of these drums was full and seeping a dark viscous liquid into a drainage ditch. All the other drums were stored inside the compound. Mr. Kirkmyer stated that about 25 drums were dumped at his facility one night. He moved these drums inside the compound. The drums are not labeled, some were expanded, and the contents are unknown. The other drums on site, numbering about 150, were for the most part unlabeled and appeared to be ruptured or rusty to the point of leaking. ORIGINAL (Red)

Drums are not normally accepted by LWD except for glue. Sometimes an unburnable material is received. Mr. Kirkmyer stated he had some drums of rancid peanut butter on hand. Other nonburnable material included tobacco waste and plastic bags. Empty drums are sent to a drum reclaimer.

The incinerator is a horizontal cylinder about 5 feet in diameter with a propane burner at one end. There is no stack on the incinerator; the combusted byproducts are emitted from the end of the unit with the fumes rising by heat convection. If the wind were blowing it is conceivable that the smoke could be blown back to the earth and thus affecting anyone who comes in contact with it.

Mr. Kirkmyer assumes that all the material received from his tank truck is burnable. He did note that he has had combustion problems because of water in the material which he estimated at 30 - 40%. The incinerator was not operable during this inspection.

There are 2 tank trucks parked just outside the LWD property. One truck was involved in an accident and is no longer used for liquid storage or

transportation. The other tanker, dark green in color, is being used as storage for industrial wastes.

The State of Virginia has required LWD to take certain action to comply with a zero discharge permit. Among the requirements is that a berm be constructed around the entire facility. At present a berm has been constructed around 3 sides of the facility. Mr. Kirkmyer indicated that the fourth side would be completed in the near future. The berm material appeared to be clay. An engineering firm has been hired to test the ground for percolation. The permit also required that rain water falling within the bermed area be collected and treated before being discharged.

ORIGINAL
(Per)

cc: Thomas Voltaggio

Attachments (4)

LIQUID WASTE DISPOSAL

Richmond, Virginia

April 8, 1980

<u>Sample #</u>	<u>Time</u>	<u>Location</u>
1		1/2 gallon of dark green tank truck - liquid sample
2		liquid sample of storage tank
2A		soil around furnace pump
3	1000	surface drainage - water sample
4	1010	soil behind furnace
5	1140	ditch below plant - water sample
6	1145	ditch above plant - water sample
7	1250	ditch below plant - sediment
8	1300	leaking drum just outside fence

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(Red)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III

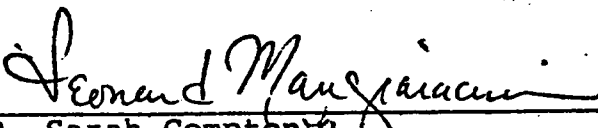
Know by these presents that I, R. Sarah Compton, Director, Enforcement Division of Region III of the United States Environmental Protection Agency ("EPA"), hereby delegate the Inspection Authority of Section 11(a) of the Toxic Substances Control Act, 15 U.S.C. § 2610(a), to George Houghton of Surveillance & Analysis Annapolis Field Office and Ronald Jones of Surveillance & Analysis Annapolis Field Office, for the purpose of inspecting the Richmond, Virginia facility known as "Liquid Waste Disposal."

The aforesaid inspection authority was delegated from the EPA Administrator to the ten EPA Regional Administrators on July 28, 1978, and redelegated by the EPA Region III Regional Administrator to the Director, Enforcement Division, EPA, Region III.

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(Red)

MAR 13 1980

(Date)


R. Sarah Compton
Director, Enforcement Division
EPA, Region III

ORIGINAL
(Red)

TSCA Notice of Inspection

U.S. Environmental Protection Agency
NOTICE OF INSPECTION UNDER
THE TOXIC SUBSTANCES CONTROL ACT

Name of Firm: "Liquid Waste
Disposal"
in
Richmond, Virginia.

Date Inspection Commenced:
APRIL 9 1980

Hour: 0830

EPA Regional Office Address:
6th & Walnut Street
Philadelphia, Pa. 19106

Reason for Inspection

For the purpose of inspecting (including taking samples, photographs and other inspection activities) an establishment, facility, or other premises in which chemical substances or mixtures or articles containing same are manufactured, processed or stored, or held before or after their distribution in commerce (including records, files, papers, processes, controls, and facilities) in order to determine whether the requirements of the Act applicable to the chemical substances, mixtures or articles within or associated with such premises have been complied with.

Authority to Conduct Inspections

By authority of Section 11 of the Toxic Substances Control Act (15 USC § 2601) an authorized representative of the Administrator of the United States Environmental Protection Agency may enter and inspect, at reasonable times, any establishment facility, or other premises in which chemical substances or mixtures are manufactured, processed, stored, or held before or after their distribution in commerce and any conveyance used to transport chemical substances, mixtures, or such articles in connection with distribution in commerce.

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(Red)

Signature of Person
Consenting to Inspection:

[Signature]

Signature of EPA Inspector(s):

George Houghton 4-9-80
George Houghton DATE
Surveillance & Analysis
Annapolis Field Office
Annapolis, Maryland

Sec. Treasurer
TITLE

Ronald Jones 4-9-80
Ronald Jones
Surveillance & Analysis
Annapolis Field Office
Annapolis, Maryland

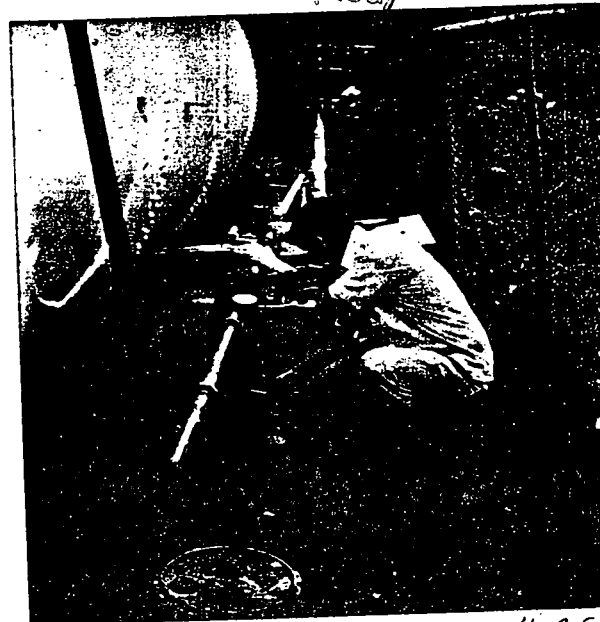
Distribution:

- one copy - Plant Manager
- one copy - PCB Violation Coordinator
- one copy - Inspector's files

ORIGINAL
(Red)



Liquid waste disposal 4-9-80
coresample - back end of FURNACE



4-9-80
Liquid waste disposal
SAMPLE FROM FURNACE PUMP ARE



4-9-80
Liquid waste disposal
SAMPLE FROM SURFACE DRAINAGE
AROUND FACILITY

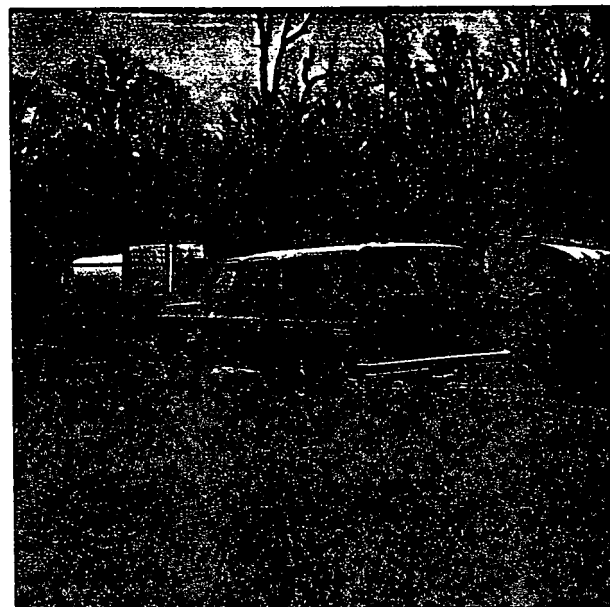


Liquid waste disposal
BERM NEXT TO SITE +
DRAINAGE AREA

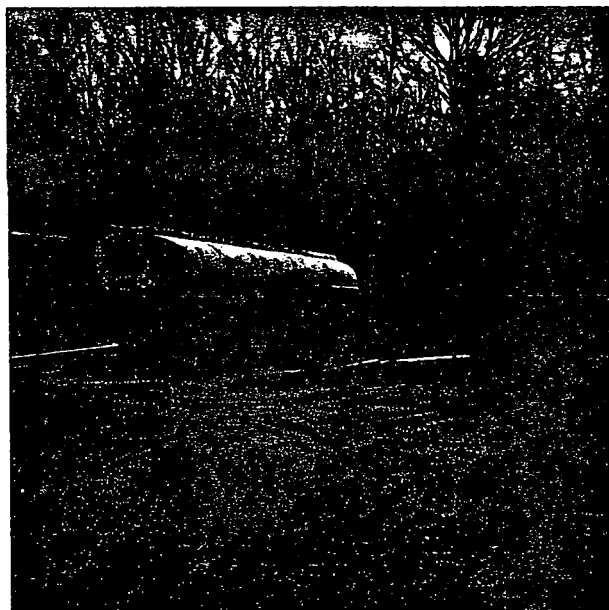
ORIGINAL
(Red)



Liquid waste disposal 3-30-80
off Richfood Road
Rich. VA
(194)



Liquid waste disposal 3-30-80
off Richfood Road
Rich. VA
(244)

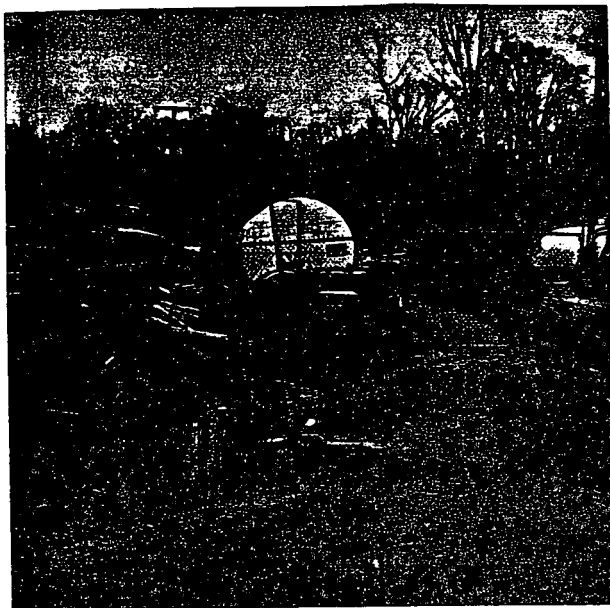


Liquid waste disposa. 3-30-80
off Richfood Rd
Rich. VA
(344)



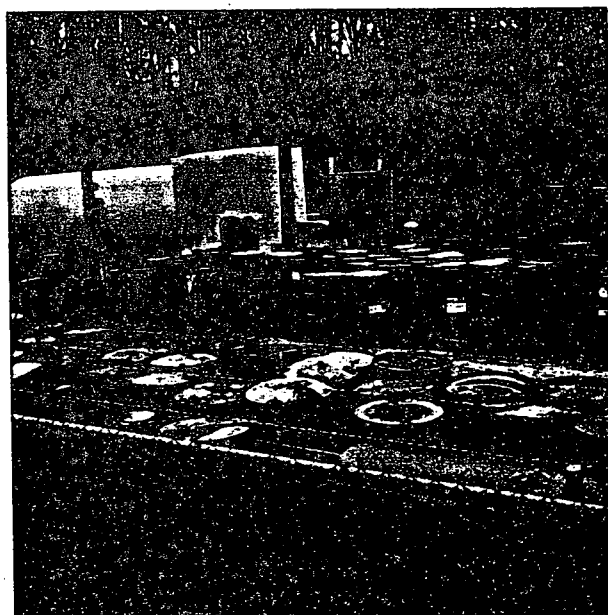
Liquid waste disposal 3-30-80
off Richfood Rd
Rich. VA
(444)

ORIGINAL
(Red)



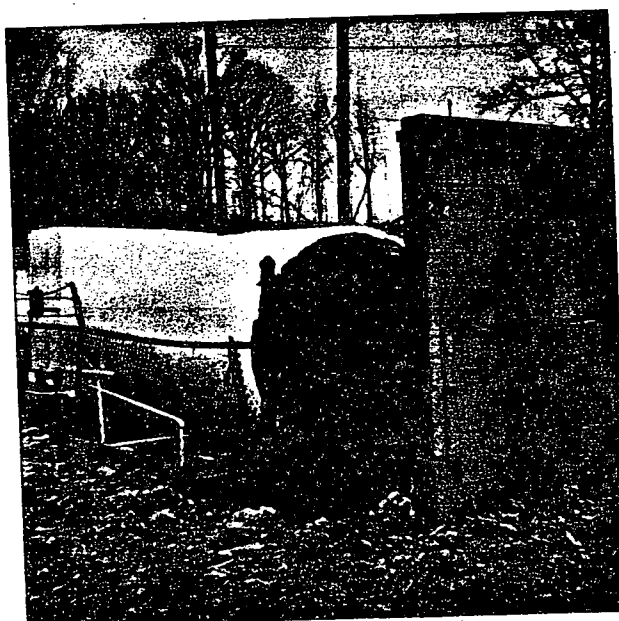
liquid waste disposal 3-20-50
show dike & drainage

5



liquid waste disposal 3-20-50
drums - note few
expanded drums

6



liquid waste disposal 3-20-50
back end of incinerator



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION

III

SITE NUMBER (to be assigned by HQ)

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Liquid Waste Disposal		B. STREET (or other identifier) Richford Road ORIGINAL	
C. CITY Richmond	D. STATE VA	E. ZIP CODE 23229	F. COUNTY NAME (Red) HANOVER
G. SITE OPERATOR INFORMATION		2. TELEPHONE NUMBER	
1. NAME G.C. Kirkmyer		804-355-2563	
3. STREET	4. CITY	5. STATE	6. ZIP CODE

H. REALTY OWNER INFORMATION (if different from operator of site)		2. TELEPHONE NUMBER	
1. NAME N/A			
3. CITY	4. STATE	5. ZIP CODE	

I. SITE DESCRIPTION Site surrounded by chain link fence - pad-locked gate - barn around 3 sides Flat swampy area - drainage ditches on 2 sides of site

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.) 5-20-80	B. APPARENT SERIOUSNESS OF PROBLEM		
	<input type="checkbox"/> 1. HIGH	<input checked="" type="checkbox"/> 2. MEDIUM	<input type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE
C. PREPARER INFORMATION			
1. NAME Geo. H. Houghton	2. TELEPHONE NUMBER Fts 922-3752 COM 301-962-3752	3. DATE (mo., day, & yr.) 5-6-80	

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION		2. TITLE	
1. NAME Geo. H. Houghton		Engineering Technician	
3. ORGANIZATION EPA/ANNAPOLIS		4. TELEPHONE NO. (area code & no.) Fts 922-3752 COM 301-962-3752	

B. INSPECTION PARTICIPANTS		
1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Ron Jones	EPA/ANNAPOLIS	922-3752

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)		
1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
G.C. Kirkmyer	804-355-2563 OWNER	Richford Road Richmond VA
Harold Bailey	WORKER	SAME

Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Keynote Metals			
Virginia Folding Box			ORIGINAL
Haskall Chemical Co			(Red)

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Liquid Waste Disposal Truck			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
None		

G. DATE OF INSPECTION
(mo., day, & yr.)

4-9-80

H. TIME OF INSPECTION

0900

I. ACCESS GAINED BY: (credentials must be shown in all cases)

☒ 1. PERMISSION☐ 2. WARRANT

J. WEATHER (describe)

SUNNY / PARTLY CLOUDY WARM (60°F-70°F) Humid

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER	X	EPA/ANNAPOLIS	6-80
c. WASTE	X	"	"
d. AIR			
e. RUNOFF			
f. SPILL	X	"	"
g. SOIL	X	"	"
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
NONE		

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

Geo Houghton

ORIGINAL
(Red)

D. SITE MAPPED?

☒ YES. SPECIFY LOCATION OF MAPS:

USGS QUAD

Yellow Tavern, VA

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

37° 38' 30"

2. LONGITUDE (deg.-min.-sec.)

77 25 05

V. SITE INFORMATION

A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

☐ 2. INACTIVE (Those sites which no longer receive wastes.)

☐ 3. OTHER (specify):

(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☒ 1. NO

☐ 2. YES (specify generator's four-digit SIC Code):

C. AREA OF SITE (in acres)

1.0 estimate

D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO

☒ 2. YES (specify):

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> A. TRANSPORTER	<input checked="" type="checkbox"/> B. STORER	<input checked="" type="checkbox"/> C. TREATER	<input checked="" type="checkbox"/> D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	<input checked="" type="checkbox"/> 2. INCINERATION	2. LANDFARM
3. BARGE	<input checked="" type="checkbox"/> 3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
<input checked="" type="checkbox"/> 4. TRUCK	<input checked="" type="checkbox"/> 4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS./TREATMENT	5. MIDNIGHT DUMPING
<input checked="" type="checkbox"/> 6. OTHER (specify):	<input checked="" type="checkbox"/> 6. OTHER (specify):	6. BIOLOGICAL TREATMENT	<input checked="" type="checkbox"/> 6. INCINERATION
	TANK TRUCK	7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

☒ 1. STORAGE ☒ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL
☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☒ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☒ 1. LIQUID ☐ 2. SOLID ☐ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE ☒ 2. IGNITABLE ☐ 3. RADIOACTIVE ☒ 4. HIGHLY VOLATILE
☒ 5. TOXIC ☐ 6. REACTIVE ☐ 7. INERT ☒ 8. FLAMMABLE

☒ 9. OTHER (specify): NARCOSISTIC

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Manifest started earlier this year.

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE
N/A		7		7		7		N/A		N/A	
(1) PAINT, PIGMENTS		(1) OILY WASTES		(1) HALOGENATED SOLVENTS		(1) ACIDS		(1) FLYASH		(1) LABORATORY, PHARMACEUT.	
(2) METALS SLUDGES		(2) OTHER(specify):		(2) NON-HALOGNTD. SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL	
(3) POTW		Cutting oil		(3) OTHER(specify):		(3) CAUSTICS		(3) MILLING/MINE TAILINGS		(3) RADIOACTIVE	
(4) ALUMINUM SLUDGE			MEX.		(4) PESTICIDES		(4) FERROUS SMELTING WASTES		(4) MUNICIPAL		
(5) OTHER(specify):			Iso Propyl Acetate		(5) DYES/INKS		(5) NON-FERROUS SMLTG. WASTES		(5) OTHER(specify):		
			Iso Propyl Alcohol		(6) CYANIDE						
			POL VINYL Acetate		(7) PHENOLS						
				XYlene		(8) HALOGENS					
				Petroleum based thinner		(9) PCB					
						(10) METALS					
						(11) OTHER(specify):					
						Glue					

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPO	a. HIGH	b. MED.	c. LOW	d. NONE			
UNKNOWN										

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSUREORIGINAL
(Red)☒ C. WORKER INJURY/EXPOSURE

NUMEROUS DRUMS ON SITE - At times the liquid is pumped directly FROM the drum to INCINERATOR - WORKER could be in direct contact during this operation - INCINERATOR ON start up could only partially burn organics and because the Incinerator has NO stack the Fumes could stay NEAR ground level.

☐ D. CONTAMINATION OF WATER SUPPLY☐ E. CONTAMINATION OF FOOD CHAIN☐ F. CONTAMINATION OF GROUND WATER☒ G. CONTAMINATION OF SURFACE WATER

The site is IN the flood plain of the Chichahmany River AND periodically Floods - ANY HAZARD waste spilled would be washed into the River.

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNAORIGINAL
(Red)☐ I. FISH KILL

☒ J. CONTAMINATION OF AIR
START UP AT INCINERATOR - NOT UP TO OPERATING TEMPERATURE +
CAN CAUSE SMOKE + EMISSIONS IN COMPLETELY BURNED WASTE
TO THE ATMOSPHERE - INCINERATOR HAS A PROPANE PILOT

☐ K. NOTICEABLE ODORS☒ L. CONTAMINATION OF SOIL

DISCOLORATION OF SOIL OBSERVED AROUND INCINERATOR
PIPING, AND NEAR SOME OF THE DRUMS

☐ M. PROPERTY DAMAGE

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSIONORIGINAL
(Red)☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

- Discolored Soil shows evidence of Past Leaks -
- storm water can generally Flow From site to drainage ditches

☐ P. SEWER, STORM DRAIN PROBLEMS☐ Q. EROSION PROBLEMS☒ R. INADEQUATE SECURITY

Front gate locked out A Large Hole in the
back Fence near incinerator would make Access Easy

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

ORIGINAL
(Red)

☐ U. OTHER (specify):

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	N/A	—	—	—
2. IN COMMERCIAL OR INDUSTRIAL AREAS	50 (est.)	2	3	—
3. IN PUBLICLY TRAVELLED AREAS	NO	—	—	—
4. PUBLIC USE AREAS (parks, schools, etc.)	NO			

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 1 Ft	B. DIRECTION OF FLOW South to River	C. GROUNDWATER USE IN VICINITY Yes
D. POTENTIAL YIELD OF AQUIFER N/A	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 200 Ft	F. DIRECTION TO DRINKING WATER SUPPLY North
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS* <input type="checkbox"/> 2. COMMUNITY (specify town): _____ > 15 CONNECTIONS		
<input type="checkbox"/> 3. SURFACE WATER <input checked="" type="checkbox"/> 4. WELL		

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
—	UNKNOWN	—		
			ORIGINAL	
			(RPM)	

I. RECEIVING WATER

1. NAME

Chickahominy River

☐ 2. SEWERS☒ 3. STREAMS/RIVERS☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Fishing (Sport)

Chickahominy River

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☒ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. COVER BURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
	1. SAND				
X	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

☒ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES☒ 2. NO

3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES☒ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

Level

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

LOW ALICA - SWAMPY - NEAR Chickahominy River

J. OTHER GEOLOGICAL DATA

UNKNOWN

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UN- KNOWN
STATE REGISTRATION	VA SAPCB	500-24	N/A	N/A	X		
STATE NO DISCHARGE PERMIT	VA SWCB	IW ND 1168	12-15-79	N/A			X
			10-26-79				

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE
 ☒ YES (summarize in this space)

 ORIGINAL
(Red)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.